

- 1 The energy transfer diagrams show some energy changes during Joe's morning. Draw lines to match each diagram to what Joe did. Complete the diagrams using the words below.

gravitational

strain

chemical

electrical

kinetic

sound

**What Joe did**

turned the bedside lamp on •

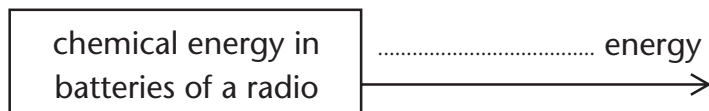
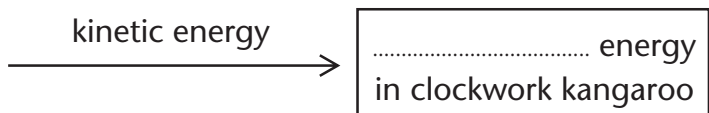
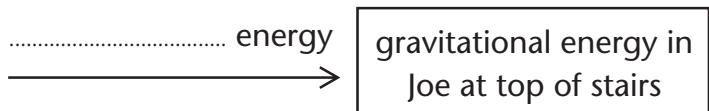
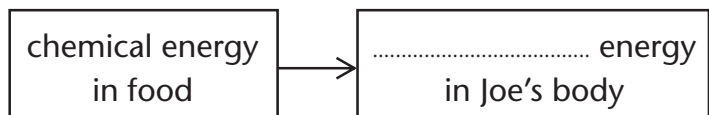
came downstairs •

ate his breakfast •

wound up his toy kangaroo •

went upstairs •

put in new batteries to make his radio work •



- 2 Complete these sentences by crossing out the wrong words.

Energy is stored in food, and in fuels, as **chemical/electrical** energy. We measure the amount of energy in food in units called **kilograms/kilojoules**.

All the energy stored in food originally came from the **Sun/Moon**. **Plants/animals** make their own food using light from the Sun. Animals eat **metals/plants**, or other animals that have eaten plants. If we eat too much **water/food** and don't **exercise/sleep** enough, we will get fat.

- 3** What name do we give to a substance that we burn to release its energy? Circle the correct letter.

- A** energy
- B** fuel
- C** fossil
- D** wave

- 4** Draw lines to match each energy resource to its correct definition.

**Energy resource****Definition**

solar energy •

wind energy •

biomass •

wave energy •

hydroelectric  
(falling water) •

fossil fuel •

- The up-and-down movement of the sea can be used to make electricity.

- Energy is used direct from the Sun.

- Plant and animal material contains stored energy.

- Energy from the downward movement of water is used to make electricity.

- Energy is stored in the remains of animals or plants that have been preserved for millions of years.

- Energy is used to make windmills turn to make electricity.

- 5 a** Underline the non-renewable energy resources in the list below.

natural gas

solar energy

wind energy

coal

wave energy

oil

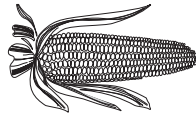
biomass

hydroelectric (energy from falling water)

- b** Write *true* or *false* for this statement.

Renewable energy resources get smaller  
when we use them and can't be replaced. ....

- 6 a** This diagram shows the flow of energy up a food chain. Write numbers in the boxes to put them in the correct order.



- b** This diagram shows the flow of energy when sugar cane is grown and fermented to make ethanol. Ethanol is used as fuel in cars in Brazil. Write numbers in the boxes to put them in the correct order.

